

Date: Fri, 17 Jun 94 19:32:13 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #678
To: Info-Hams

Info-Hams Digest Fri, 17 Jun 94 Volume 94 : Issue 678

Today's Topics:

 ** QUESTION TO HTX-20
 ARLP024 Propagation de KT7H
 BAY AREA FREQUENCIES WANTED
 Henry Radio Service phone
 IPS Daily Report - 17 June 94
 LOOKING for old Ten-Tec PM-1!
 ORBS\$168.2L.AMSAT
 ORBS\$168.MICRO.AMSAT
 ORBS\$168.MISC.AMSAT
 ORBS\$168.WEATH.AMSAT

 You know it's time to retire from the hobby when ...

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 17 Jun 1994 15:49:00 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!michaelr!
ray.wade@network.ucsd.edu
Subject: ** QUESTION TO HTX-20
To: info-hams@ucsd.edu

On 06-13-94 NATHAN N. DUEHR wrote to ALL...

NN> Subject: Re: ** QUESTION TO HTX-202 OWNERS **
NN>

NN> : I have had some trouble with recieve PL... I set my HT to use PL
NN> : squelch (open up when PL is recieved)... and even though the local

NN> : repeaters transmit their own PL, my HT sometimes kicks in and out.
NN> : Anyone else have that problem? Is this normal, or a defective unit,
NN> : or an adjustment that can be made?

Open the squelch , wide open.

K5JCM

* OFFLINE 1.56 * Dijon vu: Have I had this mustard before?

.....

Date: Fri, 17 Jun 1994 09:25:02 -0600
From: ihnp4.ucsd.edu!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!
quartz.ucs.ualberta.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: ARLP024 Propagation de KT7H
To: info-hams@ucsd.edu

SB PROP @ ARL \$ARLP024
ARLP024 Propagation de KT7H

ZCZC AP38
QST de W1AW
Propagation Forecast Bulletin 24 ARLP024

Date: Fri, 17 Jun 94 09:19:02 PDT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!newshub.nosc.mil!cg57.esnet.com!bbs.dsnet.com!
usenet@network.ucsd.edu
Subject: BAY AREA FREQUENCIES WANTED
To: info-hams@ucsd.edu

I recently purchased a handheld scanner, and I now would like to program
in some of the local frequencies, like the police, fir, highway patrol,
and any other interesting freq's that are out there. Does anyone have a
list of frequencies around the san jose area? Any info would be greatly
appreciated!!!

Thanks.

Date: Fri, 17 Jun 1994 19:22:00 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!agate!iat.holonet.net!michaelr!
ray.wade@network.ucsd.edu

Subject: Henry Radio Service phone
To: info-hams@ucsd.edu

On 06-16-94 TOM_JENNINGS wrote to ALL...

T > Hi,
T > I have a friend with a TEMPO S 1 HT FOR 2 METERS which needs
T > a part for its squelch circuit. Does anyone know Henry Radio's
T > Service Department's phone number so I can contact them about
T > this part.
T > Thanks and 73
T > TJ, kv2x
T > Development Engineer | Fax: (716) 273 7262
Have you considered calling Henry on their WATTS line and asking them?
Or, try 1 800 555 1212.
K5JCM

* OFFLINE 1.56 * Hello, is this the party to whom I am speaking?

.....

Date: Fri, 17 Jun 1994 23:13:45 GMT
From: swrinde!gatech!usenet.ins.cwru.edu!news.ecn.bgu.edu!psuvax1!
news.cc.swarthmore.edu!netnews.upenn.edu!msuinfo!harbinger.cc.monash.edu.au!
news.cs.su.oz.au!metro!ipso!rwc@@ihnp4.ucsd.edu
Subject: IPS Daily Report - 17 June 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 17/2330Z JUNE 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 17 JUNE AND FORECAST UP TO 20 JUNE

No IPS Disturbance Warning is current

1A. SOLAR SUMMARY

Activity: low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 084/026

1B. SOLAR FORECAST

| | 18 June | 19 June | 20 June |
|----------|---------------|---------------|---------------|
| Activity | Very low | Very low | Very low |
| Fadeouts | None expected | None expected | None expected |

Forecast 10.7 cm flux/Equivalent Sunspot Number : 080/020

1C. SOLAR COMMENT

None.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: quiet to unsettled

| Estimated Indices : | A | K | Observed A Index 16 June |
|---------------------|----|-----------|--------------------------|
| Learmonth | 08 | 2212 3322 | |
| Fredericksburg | 10 | | 06 |
| Planetary | 12 | | 06 |

Observed Kp for 16 June: 3121 2212

2B. MAGNETIC FORECAST

| DATE | Ap | CONDITIONS |
|--------|----|----------------------|
| 18 Jun | 12 | Quiet to unsettled. |
| 19 Jun | 15 | Quiet to unsettled. |
| 20 Jun | 20 | Unsettled to active. |

2C. MAGNETIC COMMENT

Coronal hole related disturbance expected on 20-21 June

3A. GLOBAL HF PROPAGATION SUMMARY

| DATE | LATITUDE BAND | | |
|--------|---------------|--------|--------|
| | LOW | MIDDLE | HIGH |
| 17 Jun | normal | normal | normal |

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

| DATE | LATITUDE BAND | | |
|--------|---------------|--------|-------------|
| | LOW | MIDDLE | HIGH |
| 18 Jun | normal | normal | normal |
| 19 Jun | normal | normal | normal |
| 20 Jun | normal | normal | normal-fair |

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values

Observed T index for 17 June: 35

Predicted Monthly T Index for June is 30.

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

| DATE | T-index | MUFs |
|--------|---------|--------------------------------|
| 18 Jun | 35 | Near predicted monthly values. |
| 19 Jun | 30 | Near predicted monthly values. |
| 20 Jun | 30 | Near predicted monthly values. |

4C. AUSTRALIAN REGION COMMENT

None.

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| | |
|---|------------------------------|
| IPS Regional Warning Centre, Sydney | IPS Radio and Space Services |
| email: rwc@ips.oz.au fax: +61 2 4148331 | PO Box 5606 |
| RWC Duty Forecaster tel: +61 2 4148329 | West Chatswood NSW 2057 |
| Recorded Message tel: +61 2 4148330 | AUSTRALIA |

Date: 17 Jun 1994 23:20:51 GMT
From: ihnp4.ucsd.edu!swrinde!emory!europa.eng.gtefsd.com!news.msfc.nasa.gov!
news.larc.nasa.gov!lerc.nasa.gov!kira.cc.uakron.edu!malgudi.oar.net!news.ysu.edu!
yfn.ysu.edu!ap451@network.ucsd.
Subject: LOOKING for old Ten-Tec PM-1!
To: info-hams@ucsd.edu

I'm looking for an old Ten-Tec PM-1 (or good condition
PM-2 or PM-3) QRP rig, circa 1970.

Please email with what you have.

Randy, WA4FJF

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Randy Padawer, P.O. Box 1167, Knoxville, TN 37901-1167 U.S.of A
Internet: ap451@yfn.ysu.edu America Online: GwRepRandy
Telephone: (615) 637-7263 Ham Radio op: WA4FJF & a groovy guy.

Date: 17 Jun 94 15:00:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$168.2L.AMSAT

To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-168.N
2Line Orbital Elements 168.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX June 17, 1994
BID: \$ORBS-168.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83058B 94161.37059705 -.000000089 00000-0 10000-3 0 2881
2 14129 27.0950 323.3862 6022573 185.3079 163.3129 2.05878627 82647
UO-11

1 14781U 84021B 94164.07495908 .000000165 00000-0 35885-4 0 7007
2 14781 97.7863 178.9927 0010944 287.1976 72.8030 14.69219433549701
RS-10/11

1 18129U 87054A 94163.98699348 .000000037 00000-0 23695-4 0 9094
2 18129 82.9229 331.9456 0013017 40.7525 319.4600 13.72338190349333
AO-13

1 19216U 88051B 94166.34337152 -.000000405 00000-0 10000-4 0 9248
2 19216 57.7884 247.1622 7213082 343.7462 2.0006 2.09724920 45974
FO-20

1 20480U 90013C 94165.87456846 -.000000065 00000-0 -69459-4 0 6975
2 20480 99.0376 318.1343 0541065 344.7655 13.7694 12.83225459203835
AO-21

1 21087U 91006A 94166.94154505 .000000094 00000-0 82657-4 0 4803
2 21087 82.9390 143.6297 0036919 86.0554 274.4806 13.74541473169410
RS-12/13

1 21089U 91007A 94165.54353671 .000000065 00000-0 52315-4 0 7007
2 21089 82.9214 13.4113 0030198 113.5767 246.8572 13.74042529168288
ARSENE

1 22654U 93031B 94167.12210594 -.000000100 00000-0 00000 0 0 2620
2 22654 1.8681 99.2228 2919369 183.9006 172.6566 1.42203062 1186
UO-14

1 20437U 90005B 94166.19574678 .000000057 00000-0 39150-4 0 22
2 20437 98.5879 250.9992 0010525 193.3603 166.7289 14.29846532229307
AO-16

1 20439U 90005D 94165.27176083 -.000000002 00000-0 16126-4 0 8016
2 20439 98.5971 251.3159 0010737 197.6942 162.3867 14.29899811229188
DO-17

| | | | | | | | | |
|----------|--------|---------|----------------|-------------|----------|----------|-------------------|-------|
| 1 | 20440U | 90005E | 94165.71615950 | .000000012 | 00000-0 | 21597-4 | 0 | 8016 |
| 2 | 20440 | 98.5984 | 252.0768 | 0010908 | 195.1875 | 164.8984 | 14.30039539229267 | |
| W0-18 | | | | | | | | |
| 1 | 20441U | 90005F | 94166.18122935 | .000000026 | 00000-0 | 27064-4 | 0 | 8037 |
| 2 | 20441 | 98.5977 | 252.5380 | 0011436 | 194.4906 | 165.5950 | 14.30014120229337 | |
| L0-19 | | | | | | | | |
| 1 | 20442U | 90005G | 94165.73975260 | .000000014 | 00000-0 | 22401-4 | 0 | 8009 |
| 2 | 20442 | 98.5974 | 252.3577 | 0011833 | 195.4192 | 164.6628 | 14.30109943229284 | |
| U0-22 | | | | | | | | |
| 1 | 21575U | 91050B | 94166.18613268 | .000000058 | 00000-0 | 34055-4 | 0 | 5042 |
| 2 | 21575 | 98.4349 | 240.7242 | 0007185 | 303.1212 | 56.9305 | 14.36919228152790 | |
| K0-23 | | | | | | | | |
| 1 | 22077U | 92052B | 94167.69551354 | -.000000037 | 00000-0 | 10000-3 | 0 | 3990 |
| 2 | 22077 | 66.0793 | 281.0075 | 0014358 | 287.6327 | 72.3125 | 12.86286638 | 86723 |
| A0-27 | | | | | | | | |
| 1 | 22825U | 93061C | 94166.62421734 | .000000022 | 00000-0 | 26645-4 | 0 | 2986 |
| 2 | 22825 | 98.6526 | 242.4464 | 0007983 | 211.0084 | 149.0633 | 14.27626226 | 37460 |
| I0-26 | | | | | | | | |
| 1 | 22826U | 93061D | 94166.18484780 | .000000030 | 00000-0 | 29892-4 | 0 | 2984 |
| 2 | 22826 | 98.6525 | 242.0491 | 0008198 | 216.6060 | 143.4552 | 14.27730366 | 37403 |
| K0-25 | | | | | | | | |
| 1 | 22830U | 93061H | 94166.61624742 | .000000038 | 00000-0 | 32793-4 | 0 | 3030 |
| 2 | 22830 | 98.5516 | 239.7422 | 0011533 | 176.8969 | 183.2290 | 14.28056827 | 37478 |
| NOAA-9 | | | | | | | | |
| 1 | 15427U | 84123A | 94167.74678503 | .000000084 | 00000-0 | 68618-4 | 0 | 8426 |
| 2 | 15427 | 99.0533 | 218.2332 | 0014197 | 218.9243 | 141.0907 | 14.13622176490280 | |
| NOAA-10 | | | | | | | | |
| 1 | 16969U | 86073A | 94167.73609929 | -.000000017 | 00000-0 | 10932-4 | 0 | 7409 |
| 2 | 16969 | 98.5022 | 176.7464 | 0013788 | 335.5349 | 24.5180 | 14.24889628402540 | |
| MET-2/17 | | | | | | | | |
| 1 | 18820U | 88005A | 94168.23877222 | .000000080 | 00000-0 | 57598-4 | 0 | 3126 |
| 2 | 18820 | 82.5406 | 268.5405 | 0016260 | 175.4425 | 184.6887 | 13.84717026322366 | |
| MET-3/2 | | | | | | | | |
| 1 | 19336U | 88064A | 94167.93501398 | .000000051 | 00000-0 | 10000-3 | 0 | 2963 |
| 2 | 19336 | 82.5373 | 323.8588 | 0015676 | 265.2572 | 94.6761 | 13.16967664283222 | |
| NOAA-11 | | | | | | | | |
| 1 | 19531U | 88089A | 94167.78766704 | .000000120 | 00000-0 | 89574-4 | 0 | 6621 |
| 2 | 19531 | 99.1721 | 156.6873 | 0012261 | 130.2107 | 230.0163 | 14.12994827295167 | |
| MET-2/18 | | | | | | | | |
| 1 | 19851U | 89018A | 94165.90933321 | .000000043 | 00000-0 | 25085-4 | 0 | 2966 |
| 2 | 19851 | 82.5177 | 145.7365 | 0012706 | 230.6098 | 129.3939 | 13.84366225267372 | |
| MET-3/3 | | | | | | | | |
| 1 | 20305U | 89086A | 94167.77116453 | .000000044 | 00000-0 | 10000-3 | 0 | 715 |
| 2 | 20305 | 82.5562 | 270.2734 | 0005343 | 297.9843 | 62.0727 | 13.04424679222844 | |
| MET-2/19 | | | | | | | | |
| 1 | 20670U | 90057A | 94166.13556307 | .000000043 | 00000-0 | 24944-4 | 0 | 8018 |
| 2 | 20670 | 82.5472 | 210.0963 | 0016138 | 146.5713 | 213.6461 | 13.84189089200334 | |
| FY-1/2 | | | | | | | | |

1 20788U 90081A 94168.04506144 .00000199 00000-0 15986-3 0 9941
 2 20788 98.8342 188.1798 0016270 12.5600 347.5966 14.01355709193685
 MET-2/20
 1 20826U 90086A 94166.42933899 .00000041 00000-0 24023-4 0 8094
 2 20826 82.5251 147.3809 0015084 55.5160 304.7421 13.83582875187518
 MET-3/4
 1 21232U 91030A 94165.05402871 .00000050 00000-0 10000-3 0 7071
 2 21232 82.5402 171.8070 0012003 189.1981 170.8923 13.16462951150947
 NOAA-12
 1 21263U 91032A 94167.77197316 .00000151 00000-0 87300-4 0 650
 2 21263 98.6176 195.5592 0011704 237.5342 122.4700 14.22417411160479
 MET-3/5
 1 21655U 91056A 94165.39787066 .00000051 00000-0 10000-3 0 7168
 2 21655 82.5511 118.7158 0011995 200.3127 159.7518 13.16830820136091
 MET-2/21
 1 22782U 93055A 94166.12482262 .00000057 00000-0 38317-4 0 3099
 2 22782 82.5483 208.0682 0020786 230.0622 129.8705 13.83008846 39800
 POSAT
 1 22829U 93061G 94166.69145586 .00000055 00000-0 39714-4 0 2915
 2 22829 98.6496 242.5762 0009469 198.4521 161.6334 14.28029401 37480
 MIR
 1 16609U 86017A 94166.84966268 .00004258 00000-0 66135-4 0 6428
 2 16609 51.6459 193.0595 0002890 52.8807 307.2451 15.56338305475833
 HUBBLE
 1 20580U 90037B 94167.81733476 .00000504 00000-0 35122-4 0 4979
 2 20580 28.4697 238.3578 0006329 84.7028 275.4269 14.90625547 29333
 GRO
 1 21225U 91027B 94165.55565142 .00002803 00000-0 59949-4 0 1073
 2 21225 28.4608 250.4142 0003627 181.0248 179.0350 15.40930339 56533
 UARS
 1 21701U 91063B 94167.84430509 -.00002012 00000-0 -15477-3 0 5417
 2 21701 56.9849 160.4316 0005880 102.9826 257.1873 14.96471238150884
 /EX

Date: 17 Jun 94 14:57:00 GMT
 From: news-mail-gateway@ucsd.edu
 Subject: ORBS\$168.MICRO.AMSAT
 To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-168.D
 Orbital Elements 168.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
 FROM WA5QGD FORT WORTH, TX June 17, 1994
 BID: \$ORBS-168.D
 TO ALL RADIO AMATEURS BT

Satellite: UO-14

Catalog number: 20437

Epoch time: 94166.19574678

Element set: 2

Inclination: 98.5879 deg

RA of node: 250.9992 deg

Eccentricity: 0.0010525

Arg of perigee: 193.3603 deg

Mean anomaly: 166.7289 deg

Mean motion: 14.29846532 rev/day

Decay rate: $5.7\text{e-}07$ rev/day²

Epoch rev: 22930

Checksum: 338

Satellite: AO-16

Catalog number: 20439

Epoch time: 94165.27176083

Element set: 801

Inclination: 98.5971 deg

RA of node: 251.3159 deg

Eccentricity: 0.0010737

Arg of perigee: 197.6942 deg

Mean anomaly: 162.3867 deg

Mean motion: 14.29899811 rev/day

Decay rate: $-2.0\text{e-}08$ rev/day²

Epoch rev: 22918

Checksum: 336

Satellite: DO-17

Catalog number: 20440

Epoch time: 94165.71615950

Element set: 801

Inclination: 98.5984 deg

RA of node: 252.0768 deg

Eccentricity: 0.0010908

Arg of perigee: 195.1875 deg

Mean anomaly: 164.8984 deg

Mean motion: 14.30039539 rev/day

Decay rate: $1.2\text{e-}07$ rev/day²

Epoch rev: 22926

Checksum: 325

Satellite: WO-18

Catalog number: 20441

Epoch time: 94166.18122935

Element set: 803

Inclination: 98.5977 deg

RA of node: 252.5380 deg
Eccentricity: 0.0011436
Arg of perigee: 194.4906 deg
Mean anomaly: 165.5950 deg
Mean motion: 14.30014120 rev/day
Decay rate: 2.6e-07 rev/day^2
Epoch rev: 22933
Checksum: 291

Satellite: L0-19

Catalog number: 20442
Epoch time: 94165.73975260
Element set: 800
Inclination: 98.5974 deg
RA of node: 252.3577 deg
Eccentricity: 0.0011833
Arg of perigee: 195.4192 deg
Mean anomaly: 164.6628 deg
Mean motion: 14.30109943 rev/day
Decay rate: 1.4e-07 rev/day^2
Epoch rev: 22928
Checksum: 320

Satellite: U0-22

Catalog number: 21575
Epoch time: 94166.18613268
Element set: 504
Inclination: 98.4349 deg
RA of node: 240.7242 deg
Eccentricity: 0.0007185
Arg of perigee: 303.1212 deg
Mean anomaly: 56.9305 deg
Mean motion: 14.36919228 rev/day
Decay rate: 5.8e-07 rev/day^2
Epoch rev: 15279
Checksum: 306

Satellite: K0-23

Catalog number: 22077
Epoch time: 94167.69551354
Element set: 399
Inclination: 66.0793 deg
RA of node: 281.0075 deg
Eccentricity: 0.0014358
Arg of perigee: 287.6327 deg
Mean anomaly: 72.3125 deg
Mean motion: 12.86286638 rev/day
Decay rate: -3.7e-07 rev/day^2

Epoch rev: 8672
Checksum: 334

Satellite: A0-27

Catalog number: 22825
Epoch time: 94166.62421734
Element set: 298
Inclination: 98.6526 deg
RA of node: 242.4464 deg
Eccentricity: 0.0007983
Arg of perigee: 211.0084 deg
Mean anomaly: 149.0633 deg
Mean motion: 14.27626226 rev/day
Decay rate: $2.2e-07$ rev/day²
Epoch rev: 3746
Checksum: 306

Satellite: I0-26

Catalog number: 22826
Epoch time: 94166.18484780
Element set: 298
Inclination: 98.6525 deg
RA of node: 242.0491 deg
Eccentricity: 0.0008198
Arg of perigee: 216.6060 deg
Mean anomaly: 143.4552 deg
Mean motion: 14.27730366 rev/day
Decay rate: $3.0e-07$ rev/day²
Epoch rev: 3740
Checksum: 308

Satellite: K0-25

Catalog number: 22830
Epoch time: 94166.61624742
Element set: 303
Inclination: 98.5516 deg
RA of node: 239.7422 deg
Eccentricity: 0.0011533
Arg of perigee: 176.8969 deg
Mean anomaly: 183.2290 deg
Mean motion: 14.28056827 rev/day
Decay rate: $3.8e-07$ rev/day²
Epoch rev: 3747
Checksum: 319

/EX

Date: 17 Jun 94 14:59:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$168.MISC.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-168.M
Orbital Elements 168.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX June 17, 1994
BID: \$ORBS-168.M
TO ALL RADIO AMATEURS BT

Satellite: POSAT
Catalog number: 22829
Epoch time: 94166.69145586
Element set: 291
Inclination: 98.6496 deg
RA of node: 242.5762 deg
Eccentricity: 0.0009469
Arg of perigee: 198.4521 deg
Mean anomaly: 161.6334 deg
Mean motion: 14.28029401 rev/day
Decay rate: 5.5e-07 rev/day^2
Epoch rev: 3748
Checksum: 330

Satellite: MIR
Catalog number: 16609
Epoch time: 94166.84966268
Element set: 642
Inclination: 51.6459 deg
RA of node: 193.0595 deg
Eccentricity: 0.0002890
Arg of perigee: 52.8807 deg
Mean anomaly: 307.2451 deg
Mean motion: 15.56338305 rev/day
Decay rate: 4.258e-05 rev/day^2
Epoch rev: 47583
Checksum: 335

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 94167.81733476
Element set: 497
Inclination: 28.4697 deg
RA of node: 238.3578 deg

Eccentricity: 0.0006329
Arg of perigee: 84.7028 deg
Mean anomaly: 275.4269 deg
Mean motion: 14.90625547 rev/day
Decay rate: 5.04e-06 rev/day^2
Epoch rev: 2933
Checksum: 335

Satellite: GRO
Catalog number: 21225
Epoch time: 94165.55565142
Element set: 107
Inclination: 28.4608 deg
RA of node: 250.4142 deg
Eccentricity: 0.0003627
Arg of perigee: 181.0248 deg
Mean anomaly: 179.0350 deg
Mean motion: 15.40930339 rev/day
Decay rate: 2.803e-05 rev/day^2
Epoch rev: 5653
Checksum: 268

Satellite: UARS
Catalog number: 21701
Epoch time: 94167.84430509
Element set: 541
Inclination: 56.9849 deg
RA of node: 160.4316 deg
Eccentricity: 0.0005880
Arg of perigee: 102.9826 deg
Mean anomaly: 257.1873 deg
Mean motion: 14.96471238 rev/day
Decay rate: -2.012e-05 rev/day^2
Epoch rev: 15088
Checksum: 306

/EX

Date: 17 Jun 94 14:58:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$168.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-168.W
Orbital Elements 168.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX June 17, 1994
BID: \$ORBS-168.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94167.74678503
Element set: 842
Inclination: 99.0533 deg
RA of node: 218.2332 deg
Eccentricity: 0.0014197
Arg of perigee: 218.9243 deg
Mean anomaly: 141.0907 deg
Mean motion: 14.13622176 rev/day
Decay rate: 8.4e-07 rev/day²
Epoch rev: 49028
Checksum: 311

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94167.73609929
Element set: 740
Inclination: 98.5022 deg
RA of node: 176.7464 deg
Eccentricity: 0.0013788
Arg of perigee: 335.5349 deg
Mean anomaly: 24.5180 deg
Mean motion: 14.24889628 rev/day
Decay rate: -1.7e-07 rev/day²
Epoch rev: 40254
Checksum: 342

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94168.23877222
Element set: 312
Inclination: 82.5406 deg
RA of node: 268.5405 deg
Eccentricity: 0.0016260
Arg of perigee: 175.4425 deg
Mean anomaly: 184.6887 deg
Mean motion: 13.84717026 rev/day
Decay rate: 8.0e-07 rev/day²
Epoch rev: 32236
Checksum: 310

Satellite: MET-3/2

Catalog number: 19336
Epoch time: 94167.93501398
Element set: 296
Inclination: 82.5373 deg
RA of node: 323.8588 deg
Eccentricity: 0.0015676
Arg of perigee: 265.2572 deg
Mean anomaly: 94.6761 deg
Mean motion: 13.16967664 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 28322
Checksum: 344

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94167.78766704
Element set: 662
Inclination: 99.1721 deg
RA of node: 156.6873 deg
Eccentricity: 0.0012261
Arg of perigee: 130.2107 deg
Mean anomaly: 230.0163 deg
Mean motion: 14.12994827 rev/day
Decay rate: 1.20e-06 rev/day^2
Epoch rev: 29516
Checksum: 296

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 94165.90933321
Element set: 296
Inclination: 82.5177 deg
RA of node: 145.7365 deg
Eccentricity: 0.0012706
Arg of perigee: 230.6098 deg
Mean anomaly: 129.3939 deg
Mean motion: 13.84366225 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 26737
Checksum: 331

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94167.77116453
Element set: 71
Inclination: 82.5562 deg
RA of node: 270.2734 deg
Eccentricity: 0.0005343

Arg of perigee: 297.9843 deg
Mean anomaly: 62.0727 deg
Mean motion: 13.04424679 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 22284
Checksum: 296

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94166.13556307
Element set: 801
Inclination: 82.5472 deg
RA of node: 210.0963 deg
Eccentricity: 0.0016138
Arg of perigee: 146.5713 deg
Mean anomaly: 213.6461 deg
Mean motion: 13.84189089 rev/day
Decay rate: 4.3e-07 rev/day^2
Epoch rev: 20033
Checksum: 287

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94168.04506144
Element set: 994
Inclination: 98.8342 deg
RA of node: 188.1798 deg
Eccentricity: 0.0016270
Arg of perigee: 12.5600 deg
Mean anomaly: 347.5966 deg
Mean motion: 14.01355709 rev/day
Decay rate: 1.99e-06 rev/day^2
Epoch rev: 19368
Checksum: 339

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94166.42933899
Element set: 809
Inclination: 82.5251 deg
RA of node: 147.3809 deg
Eccentricity: 0.0015084
Arg of perigee: 55.5160 deg
Mean anomaly: 304.7421 deg
Mean motion: 13.83582875 rev/day
Decay rate: 4.1e-07 rev/day^2
Epoch rev: 18751
Checksum: 316

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94165.05402871
Element set: 707
Inclination: 82.5402 deg
RA of node: 171.8070 deg
Eccentricity: 0.0012003
Arg of perigee: 189.1981 deg
Mean anomaly: 170.8923 deg
Mean motion: 13.16462951 rev/day
Decay rate: 5.0e-07 rev/day^2
Epoch rev: 15094
Checksum: 274

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94167.77197316
Element set: 65
Inclination: 98.6176 deg
RA of node: 195.5592 deg
Eccentricity: 0.0011704
Arg of perigee: 237.5342 deg
Mean anomaly: 122.4700 deg
Mean motion: 14.22417411 rev/day
Decay rate: 1.51e-06 rev/day^2
Epoch rev: 16047
Checksum: 286

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94165.39787066
Element set: 716
Inclination: 82.5511 deg
RA of node: 118.7158 deg
Eccentricity: 0.0011995
Arg of perigee: 200.3127 deg
Mean anomaly: 159.7518 deg
Mean motion: 13.16830820 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 13609
Checksum: 309

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94166.12482262
Element set: 309
Inclination: 82.5483 deg

RA of node: 208.0682 deg
Eccentricity: 0.0020786
Arg of perigee: 230.0622 deg
Mean anomaly: 129.8705 deg
Mean motion: 13.83008846 rev/day
Decay rate: 5.7e-07 rev/day^2
Epoch rev: 3980
Checksum: 301

/EX

Date: 18 Jun 94 01:19:29 GMT
From: news-mail-gateway@ucsd.edu
Subject: You know it's time to retire from the hobby when ...
To: info-hams@ucsd.edu

You name your boat Sea Cue (not once, but twice).

73 de w3otc@amsat.org

Date: 18 Jun 1994 00:44:26 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!kennish@network.ucsd.edu
To: info-hams@ucsd.edu

References <1994Jun15.221000.3518@eisner>, <2tq6g4\$kka@agate.berkeley.edu>,
<1994Jun17.134125.4041@seastar.seastar.org>
Subject : Re: "Renewal" reusable alkaline batteries

In article <1994Jun17.134125.4041@seastar.seastar.org>,
John Welch <jjw@seastar.seastar.org> wrote:

>

> And after 25 re-charges they have degraded to *only as much*
> capacity as a nicad has. The roll-off of voltage gives you some
> indication that your batteries are dying, so you can finish a
> conversation before replacing them. You can leave them in a scanner
> for several months, and still expect them to be darned near to fully
> functional when you need it. They don't develop internal shorts that
> make you think your pack is charged but it dies instantly when you use
> it.

It is true that Renewals don't suffer the self-discharge of
NiCds, and thus, having a set as a backup may not be a bad idea.
Incidentally, NiMH cells have a real bad self-discharge for those
of you eyeing those type of cells.

Some Renewals do internally short -- Ray-O-Vac claims that they are defective and will be replaced.

> The down side is they ain't worth squat in high-current
> applications. If you *must* ALWAYS run your HT on the highest power
> setting, these are not for you. I've had very good luck with them in
> a DJ-580 on medium and low power, even accidentally leaving it on
> overnight *after* heavy use that day, and it was still working the
> next day.

Well, the last time I talked with the engineers at Ray-O-Vac, the internal impedance was around 330 milliohms, or 2 ohms total for a six pack. So, on a 1A load, you lose 2 volts in the cells, which would bring the terminal voltage down to about what NiCds will be.

I think the issue is whether the cells will be able to supply the current necessary when you need it. I usually run low power, but sometimes I need the high output. Otherwise, why would the HT manufacturers bother putting in a high-power amplifier?

However, even at 1A, you get about as much voltage as a Ni-Cd, so the hit isn't that severe.

> They cannot be quick-charged (which tends to mean an early grave
> for ni-cads if done often).
> Many rigs can charge the ni-cads while running off of 12 volts from
> the car. Renewals won't do this.

Yeah, this is the big bummer. Ni-Cds can be quick charged with little effect on cycle life if done properly. If people would use the same care in charging Ni-Cds as Ray-O-Vac does with their Renewals, NiCds would last 500 cycles with no problem. Most quick chargers end up frying the cells, which will mean an early grave.

Well, OK. My initial statement may have been a bit strong. Perhaps in cases where most of the work is standby with low power transmit, then Renewals would be OK. However, at \$1.25 to \$1.50 per cell for 25 cycles, I find them much more expensive than NiCds. One place where Renewals would be really nice is in D-cell flashlights. You get the full 1.5V plus, its hard to find reasonable priced REAL D-NiCds (not the mostly air sub-C ones). (Rat Shack doesn't count as reasonably priced :-)) Haven't done this yet.

I guess the last advantage of Renewals is that they don't contain cadmium, so it's "green" for what its worth.

-Ken

Date: (null)
From: (null)
SB PROP ARL ARLP024
ARLP024 Propagation de KT7H

Solar flux was up about 15 points last week, but still stayed below 90. Disturbed conditions peaked on the 12th, when the K index reached 5 for a single three hour period, and the A index for the day was 22. Since then conditions have been improving, with the solar flux slowly rising and the geomagnetic field becoming more stable.

An event on June 12 was supposed to cause a disturbance before the end of the week, but nothing happened. Look for the A index to stay low until a recurring coronal hole reappears around June 26. Solar flux should peak near 90 over the next few days, and then drop back to around 70 from June 25 through July 4.

Sunspot Numbers from June 9 through 15 were 62, 70, 80, 89, 73, 88 and 96, with a mean of 78.3. 10.7 cm flux was 83, 85.4, 86.4, 86.3, 85, 85.3 and 88.2, with a mean of 85.7.

The path projection for this week is from Omaha, Nebraska to Angola.

Check 80 meters from 0130 to 0500z, and 40 meters from 0100 to 0600. 30 meters looks good from 0000 to 0330 and again from 0530 to 0645. 20 meters should be open from 2200 to 0200, and again from 0600 to 0730. 17 meters should be open on most days from 1830 to 0000. 10, 12 and 15 meters do not look good over this path at this time.

NNNN
/EX

End of Info-Hams Digest V94 #678
